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## For Formal Communications Intended for Entry

**DATE:** October 30, 2003      **NO. OF PAGES INCL THIS PAGE:** 26  
**TO:** United States Patent Office      **FAX NO.:** 703-872-9318  
**ATTN:** Examiner Shun K. Lee      **GROUP ART UNIT:** 2878  
**FROM:** Gordon Freedman      **FAX NO.:** (613) 274-7414  
**RE:** Response to Office Action  
U.S. Patent Application No. 09/836,464  
Filed: April 18, 2001  
Inventors: Liu  
Our File: 11258-01 US

### CERTIFICATION OF FACSIMILE TRANSMISSION UNDER 37 CFR 1.8

I hereby certify that a response to Office Action mailed July 29, 2003 attached hereto is being transmitted to the United States Patent and Trademark Office, TC 2800, on the date shown below.

A handwritten signature in cursive script, appearing to read 'Beth Hewitt', is written over a horizontal line.

Beth Hewitt

October 30, 2003

Date

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**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

In Re Patent Application Of: Hui Chun Liu

Our File No: 11258-01 US

Application No: 09/836,464

Art Unit: 2878

Filing Date: April 18, 2001

Examiner: Lee, Shun K.

Title: Room Temperature Quantum Well Infrared Detector

**OFFICIAL**

October 30, 2003

Mail Stop Non-Fee Amendment  
Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450**Amendment**

Sir,

This is in response to the Office Action mailed on July 30, 2003. Please amend the above-identified application as follows:

**Amendments to the Specification** begin on page 2 of this paper.

**Amendments to the Claims** are reflected in the listing of claims which begins on page 5 on this paper.

**Amendments to the Abstract** begin on page 9 of this paper.

**Amendments to the Drawings** begin on page 10 of this paper and include and include a set of replacement drawing sheets.

**Remarks/Arguments** begin on page 11 of this paper.

The amended drawing figures are attached following page 21 of this paper.